

Broken Calculator [\(View\)](#)

There is a broken calculator that has the integer `startValue` on its display initially. In one operation, you can:

- multiply the number on display by 2, or
- subtract 1 from the number on display.

Given two integers `startValue` and `target`, return *the minimum number of operations needed to display target on the calculator*.

Example 1:

Input: `startValue = 2, target = 3`

Output: 2

Explanation: Use double operation and then decrement operation {2 -> 4 -> 3}.

Example 2:

Input: `startValue = 5, target = 8`

Output: 2

Explanation: Use decrement and then double {5 -> 4 -> 8}.

Example 3:

Input: `startValue = 3, target = 10`

Output: 3

Explanation: Use double, decrement and double {3 -> 6 -> 5 -> 10}.

Constraints:

- `1 <= x, y <= 109`